**Weekend Assignment**

**\*NOTE: Submitted code without any compilation error\***

**Solve the below problem statements in Java: (use collections where ever it is necessary)**

1. Write a java program to read details of n students and do the following
   1. Create Student POJO class to store id, name and city
   2. Create a business object to class for the student to do the following
      1. Read student
      2. Display student
      3. Display all the student belong to a particular city
      4. Display name wise sorted
      5. Display city wise sorted.
      6. Display student details for a given id handle student not found exception

**Problem Statement: Junit testing and Design Principals**

Create below maven Java project, add Junit dependency to the pom file.

1. Create a Junit test to test the methods of the class Number
2. Methods are
   1. Int checkPrime(int x)
   2. Boolean checkAmstrong(int x)
   3. Boolean CheckPolindrom(int x)
3. Create a test case for a functional and non-functional check.
4. Create a class Employee POJO which has id, name, and city
5. Create a class AddEmployee which has a method
   1. List<Employee> list = new ArrayList()// this is to store the empoyees
   2. Void AddEmployee(Employee emp); // this method will add a new employee
   3. Employee getEmployee(int id)// will return the employee base on the id if the employee is available else returns null.
6. Create the test case to check the above AddEmployee class.